

Note: All changes are highlighted. Deleted language is struck through, Added language is italicized

DIVISION 4 Adoption of Mechanical Code with Amendments

Sec. 8-121. Uniform Mechanical Code adopted.

There is hereby adopted, by reference, by the city for the purpose of providing minimum standards to safeguard life or limb, health, property, and public welfare by regulating and controlling the design, construction, quality of materials, location, operation, alteration repair and maintenance of heating, ventilating, cooling, refrigeration systems, incinerators and other miscellaneous heat-producing appliances, that certain building code known as the Uniform Mechanical Code, recommended and published by the International Association of Plumbing and Mechanical Officials, being particularly the 2000 edition not including appendices thereto, except as amended in this article of the Salina Code, of which not fewer than three (3) copies have been, and are now filed in the office of the city clerk and the same are hereby incorporated as fully as if set out at length herein and the provisions thereof shall be controlling in the construction and maintenance of all buildings and structures therein contained within the corporate limits of the city.

State law references: Authority to incorporate standard codes by reference, K.S.A. 12-3009 et seq.

Sec. 8-122. Amendment of Section 108.1 of the Uniform Mechanical Code.

[Section 108.1 of the Uniform Mechanical Code is hereby amended to read as follows:]

108.1 General. The Administrative Authority as used in this code shall mean the City of Salina and the building official. The Administrative Authority is hereby authorized and directed to enforce all the provisions of this code. For such purposes the Administrative Authority shall have the powers of a law enforcement officer.

The Administrative Authority shall have the power to render interpretations of this code and to adopt and enforce rules and regulations supplemental to this code as may be deemed necessary in order to clarify the application of the provisions of this code. Such interpretations, rules and regulations shall be in conformity with the intent and purpose of this code.

Sec. 8-123. Amendment of Section 110.0 of the Uniform Mechanical Code.

[Section 110.0 of the Uniform Mechanical Code and all of its subsections is hereby amended to read as follows:]

110.0 Board of Appeals Appeals of orders, decisions or determinations made by the building official relative to the application and interpretation of this code shall be heard and decided by the Building Advisory Board. See Article II, Chapter 8 of Salina Municipal Code

110.1 General. In order to hear and decide appeals of orders, decisions or determinations made by the Administrative Authority relative to the application and interpretations of this code, there shall be and is hereby created a Board of Appeals consisting of members who are qualified by experience and training to pass upon matters pertaining to mechanical design, construction and maintenance and the public health aspects of mechanical systems and who are not employees of the jurisdiction. The Administrative Authority shall be an ex-officio member and shall act as secretary to said board but shall have no vote upon any matter before the board. The Board of

~~Appeals shall be appointed by the governing body and shall hold office at its pleasure. The board shall adopt rules of procedure for conducting its business and shall render all decisions and findings in writing to the appellant with a duplicate copy to the Administrative Authority. Deleted~~

~~110.2 Limitations of Authority. The Board of Appeals shall have no authority relative to interpretation of the administrative provisions of this code nor shall the board be empowered to waive requirements of this code. Deleted~~

Sec. 8-124. Amendment of Section 115.1 of the Uniform Mechanical Code.

[Section 115.1 of the Uniform Mechanical Code is hereby amended to read as follows:]

115.1 General. Fees shall be assessed in accordance with the provisions of this section and as set forth in the fee schedule Table 1-1. The fees are to be determined and adopted by this jurisdiction.

Sec. 8-125. Amendment of Section 115.2 of the Uniform Mechanical Code.

[Section 115.2 of the Uniform Mechanical Code is hereby amended to read as follows:]

115.2 Permit Fees. The fee for each permit shall be as set forth in Table 1-1 the fee schedule adopted pursuant to section 2-2 of the Salina Code of Ordinances.

Sec. 8-126. Amendment of Section 115.3 of the Uniform Mechanical Code.

[Section 115.3 of the Uniform Mechanical Code is hereby deleted:]

~~**115.3 Plan Review Fees.** When plans or other data are required to be submitted by Section 113.2, a plan review fee shall be paid at the time of submitting plans and specifications for review. The plan review fees for mechanical work shall be determined and adopted by this jurisdiction. The plan review fees specified in this subsection are separate fees from the permit fees specified in Section 115.2 and are in addition to the permit fees. When plans are incomplete or changed so as to require additional plan review, an additional plan review fee shall be charged at the rate shown in Table 1-1.~~

Sec. 8-127. Amendment of Section 303.1 of the Uniform Mechanical Code.

[Section 303.1 of the Uniform Mechanical Code is hereby amended to read as follows:]

303.1 General. Each appliance shall be designed for use with the type of fuel to which it will be connected. Appliances shall not be converted from the fuel specified on the rating plate for use with a different fuel without securing reapproval from the Administrative Authority and as recommended by the manufacturer of either the original equipment or the conversion equipment. The serving gas supplier may convert appliances in accordance with procedures approved by the Administrative Authority without securing reapproval of the appliance if properly relabeled. An accessible approved shutoff valve shall be installed in the fuel gas piping outside of each appliance and ahead of the union connection thereto in addition to any valve provided on the appliance. Such valve shall be within three six (36) feet (914 mm1.8 m) of the appliance it serves, and in the same room or space where the appliance is located.

Exceptions:

1. Shutoff valves may be accessibly located inside or under an appliance when such appliance can be removed without removal of the shutoff valve.
2. Shutoff valves may be accessibly located inside wall heaters and wall furnaces listed for recessed installation where necessary maintenance can be performed without removal of the shutoff valve.

Sec. 8-128. Amendment of Section 309.0 of the Uniform Mechanical Code.

[Section 309.0 of the Uniform Mechanical Code is hereby amended to read as follows:]

309.0 Electrical Connections. Equipment regulated by this code requiring electrical connections of more than 50 Volts shall have a positive means of disconnect adjacent to and in sight from the equipment served. A 120 volt receptacle shall be located within 25 feet (7620 mm) of the equipment for service and maintenance purposes. *The receptacle is not required for replacement of existing equipment in the same location.* The receptacle must be located on the same level as the equipment and be accessible. Low voltage wiring of 50 Volts or less within a structure shall be installed in a manner to prevent physical damage.

Sec. 8-129. Amendment of Section 504.3.2.2 of the Uniform Mechanical Code.

[Section 504.3.2.2 of the Uniform Mechanical Code is hereby amended to read as follows:]

504.3.2.2 Length Limitation. Unless otherwise permitted or required by the dryer manufacturer's installation instructions and approved by the Administrative Authority, domestic dryer moisture exhaust ducts shall not exceed total combined horizontal and vertical length of ~~fourteen (14) feet (4263 mm)~~ *30 feet (9150 mm) of 4 inch vent or 37 feet (11285 mm), of 5 inch vent*, including two 90 degree (1.57 rad) elbows. Two feet (610 mm) shall be deducted for each 90 degree (1.57 rad) for each additional elbow. *If the vent passes through space that is unheated it shall be insulated to prevent condensation.*

Sec. 8-130. Amendment of Section 707.0 of the Uniform Mechanical Code.

[Section 707.0 of the Uniform Mechanical Code and all of its subsection is hereby amended to read as follows:]

707.0 Area of Combustion Air Openings

707.1 General. The net free area of openings, ducts or plenums supplying combustion air to an area containing fuel-burning appliances shall be as specified in Table 7-1 *and sections 707.2 and 707.3.* When grilles, screens or louvers are inserted in combustion-air openings, the provisions of Section 702.3 apply. Permanent mechanically pressurized combustion-air facilities in central heating plants, fossil-fueled steam electric generating plants, district heating plants, industrial facilities and power boiler plants are exempt from the requirements of Table 7-1.

707.2 One Permanent Opening Method: One permanent opening, commencing within 12 in. (300 mm) of the top of the enclosure, shall be provided. The equipment shall have clearances of at least 1 in. (25 mm) from the sides and back and 6 in. (160 mm) from the front of the appliance. The opening shall directly communicate with the outdoors or shall communicate through a vertical or horizontal duct to the outdoors or spaces that freely communicate with the outdoors and shall have a minimum free area of:

(1) 1 in.2/3000 btu/h (700 mm2/kW) of the total input rating of all equipment located in the enclosure, and

(2) Not less than the sum of the areas of all vent connectors in the space.

707.3 Combination Indoor and Outdoor Combustion Air.

The use of a combination of indoor and outdoor combustion air shall be in accordance with 707.3.1 through 707.3.3.

707.3.1 Indoor Openings. Where used, openings connecting the interior spaces shall comply with Section 507.3.1.

707.3.2 Outdoor openings shall be located in accordance with Section 507.4.1 and 507.4.2.

707.3.3 Outdoor Openings Size. The outdoor openings size shall be calculated in accordance with the following:

(1) The ratio of interior spaces shall be the available volume of all communicating spaces divided by the required volume.

(2) The outdoor size reduction factor shall be 1 minus the ratio of interior spaces.

(3) The minimum size of outdoor openings shall be the full size of outdoor openings calculated in accordance with Section 507.4.1 or 507.4.2, multiplied by the reduction factor. The minimum dimension of air openings shall not be less than 3 in. (80 mm).

Sec. 8-131. Amendment of Section 808.0 of the Uniform Mechanical Code.

[Section 808.0 of the Uniform Mechanical Code is hereby amended to read as follows:]

808.0 Size of Gravity Venting System

Gravity venting systems shall have an internal cross-sectional area equivalent to the area of the vent collar on the appliance.

Exception: Pressurized venting systems which are an integral part of a listed appliance employing plastic pipe are regulated under the fifth paragraph of Section 801.0 and Column IV of Table 8-3.

Gravity venting systems shall have an area of at least seven (7) square inches (4516 mm²) unless the venting system is an integral part of a listed appliance.

For sizing an individual gas vent for a single, draft-hood equipped replacement appliance, the effective area of the vent connector and the gas vent shall be not less than the area of the appliance draft hood outlet or greater than seven times the draft hood outlet area. Such vents and their connectors shall be limited to a combined maximum change in direction of 180 degrees. Vents requiring greater change in direction shall be sized in accordance with Appendix C of this Code.

Sec. 8-132. Amendment of Section 809.3 of the Uniform Mechanical Code.

[Section 809.3 of the Uniform Mechanical Code is hereby amended to read as follows:]

809.3 When two or more appliances are connected to one venting system, the venting system area shall be not less than the area of the largest vent connector plus 50 percent of the areas of the additional vent connectors. For sizing an existing gas vent connected to two appliances with draft hoods, the effective area of the vent shall be not less than the area of the larger draft hood outlet plus 50% of the area of the smaller draft hood outlet or greater than seven times the smaller draft hood outlet area. The effective area of each vent connector for such systems shall be not less than the area of the appliance draft hood outlet or greater than seven times the draft hood outlet area. Lengths of vent connectors and manifolds shall be limited as required by sections 815.2.2.7 of this chapter. Each vent connector shall be limited to a combined maximum change in

direction of 180 degrees. Vents connectors requiring greater change in direction shall be sized in accordance with section 511.0 of this chapter.

New vent systems shall be installed in accordance with Appendix C of this code.

Sec. 8-133. Amendment of Section 810.1 of the Uniform Mechanical Code.

[Section 810.1 of the Uniform Mechanical Code is hereby amended to read as follows:]

810.1 The venting system shall have been lawfully installed in compliance with the code in effect at the time of its installation and shall be in a safe condition.

Sec. 8-134. Amendment of Section 813.0 of the Uniform Mechanical Code.

[Section 810.0 of the Uniform Mechanical Code and all of its subsections is hereby amended to read as follows:]

813.0 Masonry Chimneys

813.1 Design. Masonry chimneys shall be designed, anchored, supported and reinforced as required in the Building Code. Masonry chimneys shall be built and installed in accordance with NFPA 211, Standard for Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances, and lined with approved clay flue lining, a listed chimney lining system, or other approved material that will resist corrosion, erosion, softening, or cracking from vent gases at temperatures up to 1800°F (982°C).

Exception: Masonry chimney flues lined with a chimney lining system specifically listed for use with listed gas appliances with draft hoods, Category I appliances, and other gas appliances listed for use with Type B vents shall be permitted. The liner shall be installed in accordance with the liner manufacturer's instructions and the terms of the listing. A permanent identifying label shall be attached at the point where the connection is to be made to the liner. The label shall read: "This chimney liner is for appliances that burn gas only. Do not connect to solid or liquid fuel-burning appliances or incinerators."

813.2 Gas Venting into Existing Masonry Chimneys. Existing lined masonry chimneys and unlined chimneys with not more than one side exposed to the outside may be used to vent gas appliances, provided:

813.2.1 An approved liner shall be installed in an existing unlined masonry chimney when deemed necessary by the Administrative Authority considering local problems of vent gas condensate.

Inspection of Chimneys.

(A) Before replacing an existing appliance or connecting a vent connector to a chimney, the chimney passageway shall be examined to ascertain that it is clear and free of obstructions and shall be cleaned if previously used for venting solid- or liquid-fuel-burning appliances or fireplaces.

(B) Chimneys shall be lined in accordance with NFPA 211, Standard for Chimneys, Fireplaces, Vents, and Solid-Fuel Burning Appliances.

(C) Cleanouts shall be examined to determine that they will remain tightly closed when not in use.

(D) When inspection reveals that an existing chimney is not safe for the intended application, it shall be repaired, rebuilt, lined, relined, or replaced with a vent or chimney to conform to NFPA 211, Standard for Chimneys, Fireplaces, Vents, and Solid-Fuel-Burning Appliances, and shall be suitable for the equipment to be attached.

813.2.2 The effective cross-sectional area is not more than four times the cross-sectional area of the vent and chimney connectors entering the chimney. Size of

Chimneys The effective area of a chimney venting system serving listed gas appliances with draft hoods, Category I appliances, and other appliances listed for use with Type B vents shall be in accordance with one of the following methods:

813.2.2.1 For sizing an individual chimney venting system for a single appliance with a draft hood, the effective areas of the vent connector and chimney flue shall be not less than the area of the appliance flue collar or draft hood outlet or greater than seven times the draft hood outlet area.

813.2.2.2 For sizing a chimney venting system connected to two or more appliances with a draft hoods, the effective area of the chimney flue shall be not less than the area of the largest draft hood outlet plus 50 percent of the area of the smaller draft hood outlets, or greater than seven times the smallest draft hood outlet area.

813.2.2.3 Appendix C of this code.

813.2.2.4 Other approved engineering methods.

813.2.2.5 Chimney venting systems using mechanical draft shall be sized in accordance with approved engineering methods. Where an incinerator is vented by a chimney serving other gas utilization equipment, the gas input to the incinerator shall not be included in calculating chimney size, provided the chimney flue diameter is not less than 1 in. (25 mm) larger in equivalent diameter than the diameter of the incinerator flue outlet.

~~813.2.3 The effective area of the chimney when connected to more than one appliance shall be not less than the area of the largest vent or chimney connector plus 50 percent of the area of the additional vent or chimney connectors. Automatically controlled gas appliances connected to a chimney which also serves equipment burning liquid fuel shall be equipped with an automatic pilot. A gas appliance vent connector and a chimney connector from an appliance burning liquid fuel may be connected into the same chimney through separate openings, provided the gas appliance is vented above the liquid fuel-burning appliance, or both may be connected through a single opening if joined by a suitable fitting located at the chimney.~~

~~813.2.4 Automatically controlled gas appliances connected to a chimney which also serves equipment burning liquid fuel shall be equipped with an automatic pilot. A gas appliance vent connector and a chimney connector from an appliance burning liquid fuel may be connected into the same chimney through separate openings, provided the gas appliance is vented above the liquid fuel-burning appliance, or both may be connected through a single opening if joined by a suitable fitting located at the chimney. The vent or chimney connector shall enter the chimney at least six (6) inches (152 mm) from the bottom of the chimney. The chimney shall be provided with a cleanout. If six (6) inches (152 mm) are not available, a cleanout shall be provided by installing a capped tee in the vent connector next to the chimney.~~

~~813.2.5 The chimney passageway shall be examined to ascertain that it is clear and free of obstructions and shall be cleaned if previously used for venting solid- or liquid-fuel-burning appliances. This section is hereby deleted~~

~~813.2.6 The vent or chimney connector shall enter the chimney at least six (6) inches (152 mm) from the bottom of the chimney. The chimney shall be provided with a cleanout. If six (6) inches (152 mm) are not available, a cleanout shall be provided by installing a capped tee in the vent connector next to the chimney. This section is hereby deleted.~~

~~Unlined chimneys with more than one side exposed to the outside shall be lined with an approved liner unless otherwise approved by the Administrative Authority.~~

~~When inspection reveals that an existing chimney is not safe for the intended application, it shall be rebuilt to conform to chimney standards of the Building Code or~~

~~replaced with an approved gas vent or factory-built chimney complying with Section 812.1.~~

Sec. 8-135. Amendment of Section 904.5 of the Uniform Mechanical Code.

[Section 904.5 of the Uniform Mechanical Code is hereby amended to read as follows:]

904.5. In a room used or designed to be used as a bedroom, bathroom, closet or in any enclosed space with access only through such room or space.

Exception 1: Direct vent furnaces, enclosed furnaces and electric heating furnaces. Access to furnaces located in an attic or under-floor crawl space may be through a closet.

Exception 2: The replacement of warm air furnaces that are located in existing bathrooms shall be permitted provided that the only access to the bathroom is not through a bedroom.

Sec. 8-135.1. Amendment of Section 906.6.5 of the Uniform Mechanical Code.

[Section 906.6.5 of the Uniform Mechanical Code is hereby amended to read as follows:]

906.6.5 From a room or space having any fuel-burning appliances therein.

Exception: This shall not apply to:

1. Fireplaces, fireplace appliances, residential cooking appliances, direct vent appliances, enclosed furnaces and domestic-type clothes dryers installed within the room or space.
2. A gravity-type or listed vented wall furnace.
3. A blower-type system complying with the following requirements:
Where the return air is taken from a room or space having a volume exceeding one (1) cubic foot (0.028 m³) for each ten (10) Btu/h (2.93 W) fuel input rate of all fuel-burning appliances therein. At least 75 percent of the supply air is discharged back into the same room or space. Return-air inlet shall not be located within ten (10) feet (3048 mm) of any appliance firebox or draft diverter in the same enclosed room or confined space.
4. *Detached accessory structures that are regulated by the International Residential Code and S-1 garages provided that the only gas-burning appliance in the space is a single induced-draft type forced air furnace, and provided further that supply air is not ducted to any other spaces.*

Sec. 8-136. Amendment of Section 908.0 of the Uniform Mechanical Code.

[Section 908.0 of the Uniform Mechanical Code is hereby amended to read as follows:]

908.0 Attic Furnaces. Upright furnaces may be installed in an attic or furred space more than five (5) feet (1524 mm) in height, provided the required listing and furnace and duct clearances are observed. Horizontal furnaces may be installed in an attic or furred space provided the required listings and furnace and duct clearances are observed.

Clearances of a warm-air attic furnace from combustibles shall be as specified in Section 304.1.

An attic or furred space in which a warm-air furnace is installed shall be accessible by an opening and passageway as large as the largest piece of the furnace and in no case less than 30 inches by 30 inches (762 mm x 762 mm) continuous from the opening to the furnace and its controls.

Exception: The access opening into the space may be 22 inches by 30 inches (559 mm X 762 mm), provided the largest piece of equipment can be removed through the opening.

The distance from the passageway access to furnace shall not exceed 20 feet (2096 mm) measured along the center line of the passageway. The passageway shall be unobstructed and shall have continuous solid flooring not less than 24 inches (610 mm) wide from the entrance opening to the furnace.

A level working platform not less than 30 inches (762 mm) in depth and width shall be provided in front of the entire firebox side of the warm-air furnace and if the furnace temperature-limit control, air filter, fuel-control valve, vent collar or air-handling unit is not serviceable from the firebox side of the furnace, a continuous floor not less than 24 inches (610 mm) in width shall be provided from the platform in front of the firebox side of the furnace to and in front of this equipment.

Exception: A working platform need not be provided when the furnace can be serviced from the required access opening.

A permanent electric outlet and lighting fixture controlled by a switch located at the required passageway opening shall be provided at or near the furnace.

Exception: Neither an outlet nor a light shall be required for furnaces installed above a lay-in ceiling when tiles immediately adjacent to the furnace can be removed.

Sec. 8-137. Amendment of Section 910.8 of the Uniform Mechanical Code.

[Section 910.8 of the Uniform Mechanical Code is hereby amended to read as follows:]

910.8 Access. Every Furnace installed in or on an exterior wall of a building, which is designed so that the burners or controls must be serviced from outside the building, shall be readily accessible.

Furnaces located on the roof of a building shall be readily accessible.

Exceptions:

1. Permanent exterior ladders providing roof access need not extend closer than 12 feet to the finish grade.
2. A portable ladder may be used for access for furnaces on the single-story portion of a Group R or U Occupancy.
3. Permanent ladders for equipment access need not be provided at parapets or walls less than 30 inches (762 mm) in height.
4. *New equipment replacing existing equipment in the same location shall not be required to conform with this requirement.*

Sec. 8-138. Amendment of Section 916.3 of the Uniform Mechanical Code.

[Section 916.3 of the Uniform Mechanical Code is hereby amended to read as follows:]

916.3 Unvented. Unvented fuel-burning room heaters shall not be installed, used, maintained or permitted to exist in a Group I or R Occupancy, nor shall an unvented heater be installed in any building, whether as a new or as a replacement installation, unless permitted by this section. This subsection shall not apply to portable oil-fired unvented heating used as supplemental heating in Group S, Divisions 3, 4, and 5 and Group U Occupancies, and regulated by the Fire Code.

Exception: Unvented heaters, gas logs and fireplaces may be installed in Group A, B, and M occupancies and R3 single family dwellings (except bathrooms and bedrooms). Unvented gas log is a listed natural gas or liquefied petroleum gas burning log with an open flame consisting of a metal frame or base supporting

simulated logs which is designed so that its primary function lies in the aesthetic effect of the logs and flame. An unvented fireplace is a listed unvented gas log permanently installed in a freestanding enclosure designed and approved for installation in walls or other building structures. Unvented heaters, gas logs, and fireplaces:

1. Shall be equipped with an approved oxygen-depletion sensor;
2. Shall be listed;
3. Shall not be installed in any room which does not have an alternative source of primary heating (does not apply to heaters);
4. Shall have free air volume of at least 50 cubic feet for each 1000 BTUs of thermal input;
5. Shall be permanently installed;
6. Shall not be equipped or connected to any automatic ignition or shut-off device except the oxygen depletion sensor;
7. Must be fueled by natural gas or liquid propane;
8. Must bear the label of the American Gas Association or be UL listed.